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What is claimed is:

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1. A method of determining the flow of traffic on a monitored route segment comprising:

obtaining and storing location information for a plurality of global positioning system enabled cellular traffic probes;

determining the speed of each of the plurality of probes based on the stored location;

selecting a subset of the plurality of probes corresponding to probes having a location in the monitored route segment; and

determining the traffic flow for the monitored route segment on the basis of the determined speed of the probes in the selected subset.

- 2. The method of claim 1 wherein the step of determining the speed includes determining the speed of each of the plurality of probes based on the stored location and historical data.
- 15 3. The method of claim 1 wherein the step of obtaining and storing includes obtaining and storing location information for a plurality of assisted global positioning system enabled cellular traffic probes.
 - 4. The method of claim 1 wherein the step of obtaining includes requesting location information from a location based service platform.
- 5. The method of claim 4 wherein requesting location information includes transmitting a request over a virtual private network to a cellular carrier location based service platform.
 - 6. The method of claim 1 wherein the step of storing the location information includes storing a probe identifier, a timestamp and a probe location in a database.
- 7. The method claim 2 wherein the step of determining the speed includes determining a distance traveled by each probe having a database entry with the most recent timestamp since the previous timestamp, and dividing the determined distance by the time between timestamps.

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8. The method of claim 1 wherein the step of determining the speed includes obtaining a velocity vector from the location information.

- 9. The method claim 1 wherein the step of determining the speed includes determining a direction of travel for each probe having a database entry.
- 5 10. The method of claim 9 wherein the step of determining a direction includes comparing the most recently stored location to the previously stored location.
 - 11. The method of claim 1 wherein the step of selecting a subset includes selecting all probe locations in a defined area.
- 12. The method of claim 9 wherein the step of selecting a subset includes selecting all probe locations in a defined area having a defined determined direction of travel.
 - 13. The method of claim 1 wherein the step of determining the traffic flow includes grading the traffic flow in accordance with the speed of the selected subset of probes.
 - 14. The method of claim 1 further including the step of filtering the selected subset to remove outlying probe values prior to the step of determining the traffic flow.
- 15. The method of claim 14 wherein the step of filtering includes determining a distribution of the probes in the subset, and removing from the subset any probe having speed more than two standard deviations from the normal of the distribution.
 - 16. The method of claim 14 wherein the step of filtering includes determining an average speed of the probes in the subset, and removing from the subset any probe having a speed more than a predetermined amount away from the determined average speed.

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- 17. A system for monitoring and determining the flow of traffic on a monitored route segment, the system comprising:
- a location fetcher for obtaining and storing location information for a plurality of global positioning system enabled cellular traffic probes;
- a location processor for determining the speed of each of the plurality of probes; and

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a mapping engine for selecting a subset of the plurality of probes corresponding to probes having a location in the monitored route segment and for determining a traffic flow rating on the basis of the determined speed of the probes in the selected subset.

- 18. The system of claim 17 wherein the location information includes position and velocity vectors.
 - 19. The system of claim 17 wherein the location fetcher includes a location based service platform interface for connecting to a location based service platform to request and receive location information for a plurality of assisted global positioning system enabled cellular traffic probes.
- 10 20. The system of claim 17 wherein the mapping engine includes a filter for selecting a subset of the plurality of probes corresponding to probes having a location in the monitored route segment, a speed within a ranged determined in accordance with the speed of other probes in the subset, and a predetermined direction.